

KSPCB/ /FORM-V/FOCUS/2018-19/01

27th June, 2019

The Environmental Officer (Bangalore South)
Karnataka State Pollution Control Board
Parisara Bhavan, No.49 Church Street
Bangalore South- (Region 1)
Bangalore – 560001

Dear Sir/Madam,

Subject: Submission of Environmental Statement (Form - V) for Focus Building, Bangalore.

With reference to above subject, we hereby submitting the Environmental Statement (Form V) for the FY 2018-19 of our location of M/s Infosys Limited, Focus Technologies, Plot No. 22, 1st Main, 1st Phase, Electronic City, Bengaluru - 560100. Enclosed the copies of the same for your reference.

1. Form-V for Focus Building, Bangalore
2. Copy of Stack Monitoring Reports
3. Copy of Ambient Air Quality & Ambient Noise Reports
4. Copy of Treated Sewage Analysis Report

Yours Sincerely,

For INFOSYS LIMITED

Bhawesh Kumar

BHAWESH KUMAR

AVP - REGIONAL HEAD – FACILITIES



INFOSYS LIMITED

CIN: L85110KA1981PLC013115

44, Infosys Avenue
Electronics City, Hosur Road
Bengaluru 560 100, India

T 91 80 2852 0261

F 91 80 2852 0362

askus@infosys.com

www.infosys.com

Form - V

Environmental Statement

April 2018 – March 2019

ANNEXURE

**ENVIRONMENTAL STATEMENT FORM-V
(See rule 14)**

Environmental Statement for the financial year ending with 31st March

PART-A

<i>i. Name and address of the owner: occupier of the industry</i>	M/s Infosys Limited Focus Technologies, Plot No. 22, 1 st Main, 1 st Phase, Electronic City, Bengaluru - 560100.
<i>Operation or process.</i>	Software Development
<i>ii. Industry category Primary- (STC Code) Secondary- (STC Code)</i>	NA
<i>iii. Production category. Units.</i>	Software Development
<i>iv. Year of establishment</i>	2017
<i>v. Date of the last environmental statement submitted.</i>	17.09.2018

PART-B

Water and Raw Material Consumption:

i. Water consumption in m³/d

Process: NA

Cooling: NA

Domestic: Approximately. 18 m³/day

Enclosures:

- 1) Copy of Test report for Treated Sewage
- 2) Copy of Test report for D.G set emissions
- 3) Copy of Ambient Air Quality Report & Ambient Noise Report

Name of Products	Process water consumption per unit of products output	
	During the previous financial year	During the current financial year

ii. Raw material consumption

Name of raw materials*	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year

** Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.*

PART-C

***Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)***

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed Standards with reasons.
(a) Water	As per Test Reports		
(b) Air	As per Test Reports		
(c) Sludge	Sludge from STP 7 to 8 kgs/day	0.05 kgs/lt	No Variations

PART-D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management & Handling Rules, 1989).

Hazardous Wastes	Obtained limits from KSPCB	Total Quantity (Kg)	
		During the previous Financial year 2017-18 (from Sep'17 to Mar'18)	During the current financial year 2018 – 19
1. Used Oil	1.5 KL/A		0.382 KL/A
2. Oil soaked cotton waste	0.05 MT/A	For FY 17-18 we have not generated any Hazardous Waste	0.002 MT/A
3. DG filters	0.30 MT/A		0.038 MT/A
4. Batteries	NA		NA
5. Discarded/ Paint Containers	50,000 No's/A (for Campus)		Centralized disposal via Main campus

PART - E

SOLID WASTES:

Solid Wastes	Total Quantity (Kg)	
	During the previous Financial year 2017-18 (from Sep'17 to Mar'18)	During the current financial year 2018-19
a. From process	NA	NA
b. From Pollution Control Sources-STP	Sludge from STP 3 to 4 kgs/day	Sludge from STP 7 to 8 kgs/day
c. Quantity recycled or re-Utilized within the unit.	NA	NA

PART -F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Waste is segregated at source. A color code for bins has been devised and implemented for different types of waste. The color codes are as follows: Green for bio-degradable waste; Red for toxic waste; Blue for dry recyclable waste and grey for e-waste
Bio-medical waste and sanitary waste generated in the campus will be taken out by an agency authorized by PCB.

A focused approach to solid waste management has resulted in better disposal systems. Solid waste included all the Non-hazardous waste viz., paper/ cardboard waste, plastic waste, metal waste, wood waste and garden waste.

Hazardous waste:

- Used Oil / filters / oil soaked cotton waste – Sent to registered KSPCB authorized recyclers as per Hazardous Waste Rules
- Batteries - Sent to registered KSPCB authorized battery recyclers through main campus.
- E-waste - Sent to registered KSPCB authorized recyclers as per Hazardous Waste Rules through main campus.

Non-Hazardous waste:

- Waste like paper, plastic, metal, wood and glass are segregated disposed to registered recyclers/ re-processors for further disposal. All the generated solid waste is stored and disposed through main campus. We have a centralized storage in the main E City Campus
- Dry sludge – Sent to main campus & used as manure. 7 to 8 kgs/day generated from domestic sewage
- Food waste: All the food waste generated is collected in designated color coded bins and treated at Bio-gas plant at main campus and also sent to our Organic waste converter which is at Sarjapur.

SI No	Category	Quantum
1	Food waste	Approximately 56 Kgs/day
2	Paper Waste	Centralized collection & disposal from main E-city campus
3	Plastic Waste	
4	Metal Waste	
5	Wood Waste	

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

- Low Sulphur diesel is used for DG sets
- We are ensuring 100% segregation of waste at source, stored and disposed as per applicable legal legislation
- Occupancy sensors are installed in the buildings to reduce the utilization of power.
- We have installed pressure reducing valves in taps and pipes and flow restrictors which resulted in reduction of water consumption.

PART - H

Additional measures/investment proposal for environmental protection including abatement of pollution.

- Process optimization is followed to reduce our energy and water consumption
- We continue to spread awareness among the employees on the conservation practices
- We are ensuring 100% segregation of waste at source, stored and disposed as per applicable legal legislation

PART-I

MISCELLANEOUS:

Any other particulars in respect of environmental protection and abatement of pollution

- We carry out environmental quality monitoring for Emissions and effluents as per the PCB standards.
- We are ensuring 100% segregation of waste at source.
- We continue to ensure the Color coding for different type of waste which is segregating at the building level
- We have consistently ensured that we reduce, reuse and recycle & dispose the waste responsibly.
- Hazardous wastes are stored and disposed to authorized recyclers only, in adherence to applicable legislation.
- We use green sealed chemicals for our housekeeping purpose
- Monitoring of Lighting operations; Lighting controls at unoccupied workstations and at Food courts are carried out on regular basis.
- BMS (Building management system) has been implemented.
- We have reduced the usage of tissue papers.
- We have implemented biodegradable plastics which helps in phasing out of single use & non-recyclable plastics.
- Bar code labelling of BMW as per the new requirement.



Part of the Cotecna Group

SHIVA ANALYTICALS (INDIA) PRIVATE LIMITED

Plot No. 24D(P) & 34D, KIADB Industrial Area,
Hoskote, Bangalore - 562 114, Karnataka, India

Tel : +91-80 2801 5333 / 2797 1322/1626/1431
Fax : + 91-80-2797 1321
Email : info@shivaanalytics.com
Website : www.shivaanalytics.com
CIN : U24230TG1994PTC018752
GSTN : 29AACCS8434K1ZV

TEST CERTIFICATE SAIL No. 00519035636

Issued To :
Infosys Limited, (FOCUS TOWER)
Plot No: 22, 1st main , 1st Phase Electronic city,
Bangalore-560100

Your Ref : PO.No: 2300126294
Date : 23 Apr 2018
CA No. : 00519035636
Date of Receipt : 20 Mar 2019
Date of Starting : 20 Mar 2019
Date of Report : 29 Mar 2019

Matrix :Stack emission
Customer ID: Stack attached to 320 KVA DG Set , Focus Tower
Date of sampling: 17.03.2019
Sampling by : Representatives of Shiva Analyticals (India) Private Limited
Instrument used :Vayubodhan Upakaran Pvt Ltd, Stack Sampler VSS1,
Date of calibration : 27.07.2018
Next calibration Due on : 26.07.2019

Sl.No.	Parameters	Unit	Results	Requirement	Test Methods
1.	Ambient Temperature	°C	31	Not specified	IS:11255(P-3)2008
2.	Diameter	Meter	0.28	Not specified	IS:11255(P-3)2008
3.	Stack Temperature	°C	254	Not specified	IS:11255(P-3)2008
4.	Velocity	m/s	11.38	Not specified	IS:11255(P-3)2008
5.	Flue Gas discharge	Nm ³ / Hr	1514	Not specified	IS:11255(P-3)2008
6.	Particulate matter	g/KW-hr	0.105	≤ 0.2 max	IS:11255(P-1)1985
7.	Sulphur dioxide	mg/Nm ³	< 3	Not specified	Flue gas analyser
8.	Carbon monoxide	g/KW-hr	0.427	≤ 3.5 max	Flue gas analyser
9.	Nitrogen dioxide	g/KW-hr	1.680	≤ 4.0 max *	Flue gas analyser
	Non Methane Hydrocarbons	g/KW-hr	< 0.001		IS: 13270: 1992
10.	Nitrogen dioxide	mg/Nm ³	319	Not specified	Flue gas analyser

NOTE : The Requirement mentioned here is as per Environment Protection Act-1986 Sl.No 95
* The Limit for (Nitrogen Dioxide + Nonmethen Hydrocarbons) as per the Standards

- Note :
- The results listed above pertain only to the tested samples and applicable parameters.
 - Samples which are degradable will be disposed immediately after testing and others will be disposed after one month from the date of issue of test certificate unless otherwise specified.
 - Total liability of our laboratory is limited to the invoice amount.
 - This report is not to be reproduced either wholly or in part and cannot be used as an evidence in the Court of Law and should not be used in any advertising media without prior written permission.
 - In case any reconfirmation of contents of this test certificate is required, please contact our office.
 - Sampling is not done by us unless otherwise specified.
 - Any discrepancy in the Test Certificate should be notified within 30 days.

Authorized Signatory

Mr. Krishnamurthy
Lab Incharge
Environment

Accreditations : ISO/IEC 17025:2005(NABL)
Certifications : ISO 9001:2015, OHSMS:18001:2007, BIS, KSPCB Gr. A, AYUSH
Approvals : FSSAI, Office of the Drug controller for the state of Karnataka

SAIL/FRM-01R



Part of the Cotecna Group

SHIVA ANALYTICALS (INDIA) PRIVATE LIMITED

Plot No. 24D(P) & 34D, KIADB Industrial Area,
Hoskote, Bangalore - 562 114. Karnataka, India

Tel : +91-80 2801 5333 / 2797 1322/1626/1431

Fax : + 91-80-2797 1321

Email : info@shivaanalytics.com

Website : www.shivaanalytics.com

CIN : U24230TG1994PTC018752

GSTN : 29AACCS8434K1ZV

TEST CERTIFICATE SAIL No. 00519035635

Issued To :

Infosys Limited, (FOCUS TOWER)

Plot No: 22, 1st main , 1st Phase Electronic city,
Bangalore-560100

Your Ref : PO.No: 2300126294

Date : 23 Apr 2018

CA No. : 00519035635

Date of Receipt : 20 Mar 2019

Date of Starting : 20 Mar 2019

Date of Report : 29 Mar 2019

Matrix :Stack emission

Customer ID: Stack attached to 640 KVA DG Set ,Focus Tower

Date of sampling: 17.03.2019

Sampling by : Representatives of Shiva Analyticals (India) Private Limited

Instrument used :Vayubodhan Upakaran Pvt Ltd, Stack Sampler VSS1,

Date of calibration : 27.07.2018

Next calibration Due on : 26.07.2019

Sl.No.	Parameters	Unit	Results	Requirement	Test Methods
1.	Ambient Temperature	°C	31	Not specified	IS:11255(P-3)2008
2.	Diameter	Meter	0.33	Not specified	IS:11255(P-3)2008
3.	Stack Temperature	°C	255	Not specified	IS:11255(P-3)2008
4.	Velocity	m/s	12.48	Not specified	IS:11255(P-3)2008
5.	Flue Gas discharge	Nm ³ / Hr	2168	Not specified	IS:11255(P-3)2008
6.	Particulate matter	g/KW-hr	0.083	≤ 0.2 max	IS:11255(P-1)1985
7.	Sulphur dioxide	mg/Nm ³	< 3	Not specified	Flue gas analyser
8.	Carbon monoxide	g/KW-hr	0.364	≤ 3.5 max	Flue gas analyser
9.	Nitrogen dioxide	g/KW-hr	1.378	≤ 4.0 max *	Flue gas analyser
	Non Methane Hydrocarbons	g/KW-hr	< 0.001		IS: 13270: 1992
10.	Nitrogen dioxide	mg/Nm ³	366	Not specified	Flue gas analyser

NOTE : The Requirement mentioned here is as per Environment Protection Act-1986 Sl.No 95

* The Limit for (Nitrogen Dioxide + Nonmethen Hydrocarbons) as per the Standards

- Note :
1. The results listed above pertain only to the tested samples and applicable parameters.
 2. Samples which are degradable will be disposed immediately after testing and others will be disposed after one month from the date of issue of test certificate unless otherwise specified.
 3. Total liability of our laboratory is limited to the invoice amount.
 4. This report is not to be reproduced either wholly or in part and cannot be used as an evidence in the Court of Law and should not be used in any advertising media without prior written permission.
 5. In case any reconfirmation of contents of this test certificate is required, please contact our office.
 6. Sampling is not done by us unless otherwise specified.
 7. Any discrepancy in the Test Certificate should be notified within 30 days.

Authorized Signatory

Mr. Krishnamurthy

Lab Incharge
Environment

Accreditations : ISO/IEC 17025:2005(NABL)
Certifications : ISO 9001:2015, OHSMS:18001:2007, BIS, KSPCB Gr. A, AYUSH
Approvals : FSSAI, Office of the Drug controller for the state of Karnataka

SAIL/FRM-01R



Part of the Cotecna Group

SHIVA ANALYTICALS (INDIA) PRIVATE LIMITED

Plot No. 24D(P) & 34D, KIADB Industrial Area,
Hoskote, Bangalore - 562 114, Karnataka, India

Tel : +91-80 2801 5333 / 2797 1322/1626/1431

Fax : + 91-80-2797 1321

Email : info@shivaanalyticals.com

Website : www.shivaanalyticals.com

CIN : U24230TG1994PTC018752

GSTN : 29AACCS8434K1ZV

TEST CERTIFICATE SAIL No. 00519035596

Issued To :

Infosys Limited, (FOCUS TOWER)

Plot No: 22, 1st main, 1st Phase Electronic city,
Bangalore-560100

Your Ref : PO.No: 2300126294

Date : 23 Apr 2018

CA No. : 00519035596

Date of Receipt : 20 Mar 2019

Date of Starting : 20 Mar 2019

Date of Report : 29 Mar 2019

Matrix : Ambient Air Quality

Customer ID : Focus Tower, Near Security Gate

Date of sampling: 17 and 18.03.2019

Time of sampling : 11.30 am to 11.30 am

Sampling duration : 24 Hours

Sampling by: Representatives of Shiva Analyticals (India) Pvt.Ltd.

Instruments used :

i) Envirotech Respirable Dust sampler Model APM 460BL-411

Date of Calibration : 17.07.2018

Next Calibration Due on: 16.07.2019

ii) PM 2.5 Sampling Attachment Model AAS 190

Date of Calibration : 17.07.2018

Next Calibration Due on: 16.07.2019

Sl. No	PARAMETERS	UNIT	RESULTS	REQUIREMENT	PROTOCOL
1.	Particulate Matter (PM ₁₀)	µg/m ³	69	100 max	IS : 5182 (P-23) 2006
2.	Particulate Matter (PM _{2.5})	µg/m ³	38.2	60 max	Gravimetry
3.	Nitrogen Dioxide (NO ₂)	µg/m ³	36.6	80 max	IS : 5182 (P-6) 2006
4.	Sulphur Dioxide (SO ₂)	µg/m ³	16.2	80 max	IS : 5182 (P-2) 2001
5.	Carbon Monoxide (CO)	mg/m ³	1.71	2 max	IS : 5182 (P-10) 1999
6.	Lead (Pb)	µg/m ³	0.021	1.0 max	USEPA Compendium Method IO-3.1 & 3.4,
7.	Ozone (O ₃)	µg/m ³	35.1	100 max	IS:5182(P-09)-1974
8.	Ammonia (NH ₃)	µg/m ³	44.8	400 max	Indophenol Blue Method
9.	Benzene (C ₆ H ₆)	µg/m ³	< 2.5	05 max	IS : 5182 (P-11) 2006
10.	Benzo (a) Pyrene (BaP)- Particulate Phase only	ng/m ³	< 0.1	1 max	HPLC
11.	Arsenic (As),	ng/m ³	1.4	6 max	USEPA Compendium Method IO-3.1 & 3.4,
12.	Nickel (NI)	ng/m ³	8.1	20 max	USEPA Compendium Method IO-3.1 & 3.4,

Remarks: The Requirement mentioned here is as per National Ambient Air Quality Standards

Abbreviations :

HPLC : High Performance Liquid Chromatography

- Note :
- The results listed above pertain only to the tested samples and applicable parameters.
 - Samples which are degradable will be disposed immediately after testing and others will be disposed after one month from the date of issue of test certificate unless otherwise specified.
 - Total liability of our laboratory is limited to the invoice amount.
 - This report is not to be reproduced either wholly or in part and cannot be used as an evidence in the Court of Law and should not be used in any advertising media without prior written permission.
 - In case any reconfirmation of contents of this test certificate is required, please contact our office.
 - Sampling is not done by us unless otherwise specified.
 - Any discrepancy in the Test Certificate should be notified within 30 days.

Accreditations : ISO/IEC 17025:2005(NABL)

Certifications : ISO 9001:2015, OHSMS:18001:2007, BIS, KSPCB Gr. A, AYUSH

Approvals : FSSAI, Office of the Drug controller for the state of Karnataka

Authorized Signatory

Mr. Krishnamurthy

Lab Incharge
Environment

SAIL/FRM-01R



Part of the Cotecna Group

SHIVA ANALYTICALS (INDIA) PRIVATE LIMITED

Plot No. 24D(P) & 34D, KIADB Industrial Area,
Hoskote, Bangalore - 562 114. Karnataka, India

Tel : +91-80 2801 5333 / 2797 1322/1826/1431

Fax : + 91-80-2797 1321

Email : info@shivaanalytics.com

Website : www.shivaanalytics.com

CIN : U24290TG1994PTC018752

GSTN : 29AACCS8434K1ZV

TEST CERTIFICATE SAIL No. 00519035608-5610

Issued To :

Infosys Limited, (FOCUS TOWERS)
Plot No: 22, 1st main , 1st Phase Electronic city,
Bangalore, Karnataka -560 100

Your Ref : PO.No: 2300126294

Date : 23 Apr 2018

CA No. : 00519035608-5610

Date of Receipt : 20 Mar 2019

Date of Starting : 20 Mar 2019

Date of Report : 29 Mar 2019

Matrix : Ambient Noise

Customer ID : As given below

Sampling Plan : Given By Customer

Sampling By : Representatives of Shiva Analyticals (India) Pvt. Ltd.,

Instrument Used : Digital Sound Level Meter, BASE LINE, Model 2511

Date of Calibration : 28.12.2018

Next Calibration Due on : 27.12.2019

Sl.No.	Customer ID	Date of Monitoring	Noise Level in dB(A) Leq	
			Day Time	Night Time
1.	Focus Building-Near Main Gate	17 & 18.03.2019	59.9	49.2
2.	Focus Building – Near Gate -2	17 & 18.03.2019	61.2	48.7
3.	Focus Building– Back Side Near LT Panel Area	17 & 18.03.2019	55.5	49.4

Ambient air quality standards in respect of Noise as per Environment (Protection) Rules, 1986

Area Code	Category of area	Limits in dB(A) Leq	
		Day Time	Night Time
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

Note1: Day time is reckoned in between 06.00 am and 09.00 pm


Note2: Night time is reckoned in between 09.00 pm and 06.00 am

- Note :**
- The results listed above pertain only to the tested samples and applicable parameters.
 - Samples which are degradable will be disposed immediately after testing and others will be disposed after one month from the date of issue of test certificate unless otherwise specified.
 - Total liability of our laboratory is limited to the invoice amount.
 - This report is not to be reproduced either wholly or in part and cannot be used as an evidence in the Court of Law and should not be used in any advertising media without prior written permission.
 - In case any reconfirmation of contents of this test certificate is required, please contact our office.
 - Sampling is not done by us unless otherwise specified.
 - Any discrepancy in the Test Certificate should be notified within 30 days.

Accreditations : ISO/IEC 17025:2005(NABL)

Certifications : ISO 9001:2015, OHSMS:18001:2007, BIS, KSPCB Gr. A, AYUSH

Approvals : FSSAI, Office of the Drug controller for the state of Karnataka


Authorized Signatory
Mr. Krishnamurthy
Lab Incharge
Environment

SAIL/FRM-01R